12

PAGE 1

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/07/978,891B

DATE: 05/26/93 TIME: 14:44:16

S4539

LINE ORIGINAL TEXT

CORRECTED TEXT

4	(1) GENERAL INFORMATION	(1) GENERAL INFORMATION:
12	(iv) CORRESPONDING ADDRESS:	(iv) CORRESPONDENCE ADDRESS:
349	(3) INFORMATION FOR SEQ ID NO: 2:	(2) INFORMATION FOR SEQ ID NO: 2:
676	(4) INFORMATION FOR SEQ ID NO: 3:	(2) INFORMATION FOR SEQ ID NO: 3:
695	(5) INFORMATION FOR SEQ ID NO: 4:	(2) INFORMATION FOR SEQ ID NO: 4:
	(6) INFORMATION FOR SEQ ID NO: 5:	(2) INFORMATION FOR SEQ ID NO: 5:
	(7) INFORMATION FOR SEQ ID NO: 6:	(2) INFORMATION FOR SEQ ID NO: 6:
768	(8) INFORMATION FOR SEQ ID NO: 7:	(2) INFORMATION FOR SEQ ID NO: 7:
	(9) INFORMATION FOR SEO ID NO: 8:	(2) INFORMATION FOR SEQ ID NO: 8:

PAGE: 1.

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/07/978,891B

DATE: 05/26/93 TIME: 14:44:16

S4539

MANDATORY IDENTIFIER THAT WAS NOT FOUND

PRIOR APPLICATION DATA APPLICATION NUMBER FILING DATE

PAGE:

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/07/978,891B

DATE: 05/26/93 TIME: 14:44:16

S4539

LINE ERROR

ORIGINAL TEXT

30	Wrong application	Serial Number	(A) APPLICATION NUMBER: 07/978,891
691	Entered and Calc.	Seq. Length differ	(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 3
729	Entered and Calc.	Seq. Length differ	(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 5
764	Entered and Calc.	Seq. Length differ	(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 6
783	Entered and Calc.	Seq. Length differ	(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 7
802	Entered and Calc.	Seq. Length differ	(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 8

De Au 1805

Raw Sequence Listing

Page:

05/26/93 14:42:50 S4539.raw

```
1
                                      SEQUENCE LISTING
                                                                     PP. 14->16
 2
 3
 4
    (1) GENERAL INFORMATION
 5
 6
    (i) APPLICANT: Darrell Anderson, Nabil Hanna, John Leonard, Roland Newman and Mitchell R
 7
 8
    (ii) TITLE OF INVENTION: THERAPEUTIC APPLICATION OF CHIMERIC ANTIBODY TO HUMAN B LYMPHOCY
 9
    (iii) NUMBER OF SEQUENCES: 8
10
11
    (iv) CORRESPONDING ADDRESS:
12
13
    (A) ADDRESSEE: IDEC Pharmaceuticals Corporation
14
    (B) STREET: 11099 N. Torrey Pines Road, #160
15
16
    (C) CITY: La Jolla
    (D) STATE: California
17
18
    (E) COUNTRY: USA
19
    (F)ZIP:92037
20
21
    (v) COMPUTER READABLE FORM:
22
23
    (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
24
    (B) COMPUTER: Macintosh
25
    (C) OPERATING SYSTEM: MS.DOS
    (D) SOFTWARE: Microsoft Word 5.0
26
27
    (vi) CURRENT APPLICATION DATA:
28
29
30
    (A) APPLICATION NUMBER: 07/978,891
31
    (B) FILING DATE: 13 NOV 1992
    (C) CLASSIFICATION: 424
32
33
    (viii) ATTORNEY/AGENT INFORMATION:
34
35
36
    (A) NAME: Burgoon, Richard P. Jr.
37
    (B) REGISTRATION NUMBER: 34,787
38
    (C) REFERENCE/DOCKET NUMBER:
39
    (ix) TELECOMMUNICATION INFORMATION:
40
41
42
    (A) TELEPHONE: (619) 458-0600
    (B) TELEFAX: (619) 546-9274
43
44
    (2) INFORMATION FOR SEQ ID NO: 1:
45
46
    (i) SEQUENCE CHARACTERISTICS:
47
48
    (A) LENGTH: 8540 bases
49
    (B) TYPE: nucleic acid
50
51
    (C) STRANDEDNESS: single
52
    (D) TOPOLOGY: circular
```

53

57

59

60 61

Raw Sequence Listing

05/26/93 14:42:51 S4539.raw

Patent Application US/07/978,891B

54 (ii) MOLECULE TYPE: DNA (genomic)

55 56 (iii) HYPOTHETICAL: no

58 (iv) ANTI-SENSE: no

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

ρŢ							
62	GACGTCGC	G CCGCTCTAC	G CCTCCAAA	AA AGCCTCCT	CA CTACTTCTC	G AATAGCTCAG	60
63							
64	AGGCCGAGGC	GGCCTCGGCC	TCTGCATAAA	TAAAAAAAAT	TAGTCAGCCA	TGCATGGGGC	120
65						00000000000000000000000000000000000000	100
66	GGAGAATGGG	CGGAACTGGG	CGGAGTTAGG	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
67 68	እ <i>ሞርርሞሞርሮሞር</i>	እ <i>ር</i> ሞእ እጥሞርእር	እ <i>ጥ</i> ርሮ እጥርሮጥጥ	ずごごみ ずるご ずでご	тесстестее	GGAGCCTGGG	240
69	AIGGIIGCIG	ACIAAIIGAG	AIGCAIGCII	IGCAIACIIC	1000100100	001.0001.000	
70	GACTTTCCAC	ACCTGGTTGC	TGACTAATTG	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	300
71							
72	GGGGAGCCTG	GGGACTTTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
73							
74	AGTTATTAAT	AGTAATCAAT	TACGGGGTCA	TTAGTTCATA	GCCCATATAT	GGAGTTCCGC	420
75			maaaaaaaa	000max 0000	GG23 GG2		480
76 77	GTTACATAAC	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	400
7 <i>7</i>	ACCTCAATAA	тсасстатст	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
79					•		
80	TGGGTGGACT	ATTTACGGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
81							
82	AGTACGCCCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATTA	TGCCCAGTAC	660
83					m. mm. ama. m	GGGTT TTT GG	720
84 85	ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	720
85 86	ATGGTGATGC	GGTTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTTGA	CTCACGGGGA	780
87	AIGGIGAIGE	0011110001	02				
88	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
89							
90	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
91				m. cama ca	cmc1	GTGG3 G3 GGG	960
92	CGGTGGGAGG	TCTATATAAG	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
93 94	СУДСУСУСУ	СТСТСАССАТ	GAGGGTCCCC	GCTCAGCTCC	TGGGGCTCCT	GCTGCTCTGG	1020
95	CAICACAGAI	CICICACCAI	oncoorece	0010100100			
96	CTCCCAGGTG	CACGATGTGA	TGGTACCAAG	GTGGAAATCA	AACGTACGGT	GGCTGCACCA	1080
97							
98	TCTGTCTTCA	TCTTCCCGCC	ATCTGATGAG	CAGTTGAAAT	CTGGAACTGC	CTCTGTTGTG	1140
99					1 amags 1 ag-	003 M3 3 0000	1200
100	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	GCCAAAGTAC	AGTGGAAGGT	GGATAACGCC	1200
101 102	СТССААТССС	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1260
102	CICCARICGG	CIMCICCO					
104	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1320

Raw Sequence Listing

05/26/93 14:42:52 S4539.raw

105 106	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1380
107 108	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1440
109 110	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1500
111 112	GTTTGCCCCT	CCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1560
113 114	таатаааатс	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	TCTGGGGGGT	1620
115 116		AGGACAGCAA		•			1680
117							
118 119	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	1740
120 121	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	1800
122 123	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	1860
124 125	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	1920
126 127	CCATTGACGT	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	ACGGGACTTT	CCAAAATGTC	1980
128	GTAACAACTC	CGCCCCATTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	2040
129 130	TAAGCAGAGC	TGGGTACGTC	CTCACATTCA	GTGATCAGCA	CTGAACACAG	ACCCGTCGAC	2100
131 132	ATGGGTTGGA	GCCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACGCGTGT	CGCTAGCACC	2160
133 134	AAGGGCCCAT	CGGTCTTCCC	CCTGGCACCC	TCCTCCAAGA	GCACCTCTGG	GGGCACAGCG	2220
135 136	GCCCTGGGCT	GCCTGGTCAA	GGACTACTTC	CCCGAACCGG	TGACGGTGTC	GTGGAACTCA	2280
137 138	GGCGCCCTGA	CCAGCGGCGT	GCACACCTTC	СССССТСТСС	TACAGTCCTC	AGGACTCTAC	2340
139 140		GCGTGGTGAC					2400
141							
142 143		ACAAGCCCAG					2460
144 145	GACAAAACTC	ACACATGCCC	ACCGTGCCCA	GCACCTGAAC	TCCTGGGGGG	ACCGTCAGTC	2520
146 147	TTCCTCTTCC	CCCCAAAACC	CAAGGACACC	CTCATGATCT	CCCGGACCCC	TGAGGTCACA	2580
148 149	TGCGTGGTGG	TGGACGTGAG	CCACGAAGAC	CCTGAGGTCA	AGTTCAACTG	GTACGTGGAC	2640
150 151	GGCGTGGAGG	TGCATAATGC	CAAGACAAAG	CCGCGGGAGG	AGCAGTACAA	CAGCACGTAC	2700
152	CGTGTGGTCA	GCGTCCTCAC	CGTCCTGCAC	CAGGACTGGC	TGAATGGCAA	GGAGTACAAG	2760
153 154	TGCAAGGTCT	CCAACAAAGC	CCTCCCAGCC	CCCATCGAGA	AAACCATCTC	CAAAGCCAAA	2820
155 156	GGGCAGCCCC	GAGAACCACA	GGTGTACACC	CTGCCCCCAT	CCCGGGATGA	GCTGACCAAG	2880

Raw Sequence Listing

05/26/93 14:42:53 S4539.raw

_								
1	.57 .58	AACCAGGTCA	GCCTGACCTG	CCTGGTCAAA	GGCTTCTATC	CCAGCGACAT	CGCCGTGGAG	2940
	.59 .60	TGGGAGAGCA	ATGGGCAGCC	GGAGAACAAC	TACAAGACCA	CGCCTCCCGT	GCTGGACTCC	3000
_	.61 .62	GACGGCTCCT	TCTTCCTCTA	CAGCAAGCTC	ACCGTGGACA	AGAGCAGGTG	GCAGCAGGGG	3060
	.63 .64	AACGTCTTCT	CATGCTCCGT	GATGCATGAG	GCTCTGCACA	ACCACTACAC	GCAGAAGAGC	3120
	.65 .66	CTCTCCCTGT	CTCCGGGTAA	ATGAGGATCC	GTTAACGGTT	ACCAACTACC	TAGACTGGAT	3180
1	.67 .68		ATGCGGCCGT					3240
1	.69							
	.70 .71	GCCAGCCATC	TGTTGTTTGC	CCCTCCCCCG	TGCCTTCCTT	GACCCTGGAA	GGTGCCACTC	3300
	.72 .73	CCACTGTCCT	TTCCTAATAA	AATGAGGAAA	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	3360
1	.74 .75	CTATTCTGGG	GGGTGGGGTG	GGGCAGGACA	GCAAGGGGGA	GGATTGGGAA	GACAATAGCA	3420
1	.76	GGCATGCTGG	GGATGCGGTG	GGCTCTATGG	AACCAGCTGG	GGCTCGACAG	CGCTGGATCT	3480
1	.77 .78	CCCGATCCCC	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	3540
	.79 .80	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	3600
	.81 .82	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	3660
	.83 .84	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	3720
	.85 .86	CCCTCATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	3780
1	.87							
_	.88 .89		GGGCAGAGCA					3840
	.90 .91	CTGACATAGT	TGTGTTGGGA	GCTTGGATAG	CTTGGACAGC	TCAGGGCTGC	GATTTCGCGC	3900
	.92 .93	CAAACTTGAC	GGCAATCCTA	GCGTGAAGGC	TGGTAGGATT	TTATCCCCGC	TGCCATCATG	3960
1	.94 .95	GTTCGACCAT	TGAACTGCAT	CGTCGCCGTG	TCCCAAAATA	TGGGGATTGG	CAAGAACGGA	4020
1	.96	GACCTACCCT	GGCCTCCGCT	CAGGAACGAG	TTCAAGTACT	TCCAAAGAAT	GACCACAACC	4080
1	.97 .98	TCTTCAGTGG	AAGGTAAACA	GAATCTGGTG	ATTATGGGTA	GGAAAACCTG	GTTCTCCATT	4140
2	.99 100	CCTGAGAAGA	ATCGACCTTT	AAAGGACAGA	ATTAATATAG	TTCTCAGTAG	AGAACTCAAA	4200
	01 02	GAACCACCAC	GAGGAGCTCA	TTTTCTTGCC	AAAAGTTTGG	ATGATGCCTT	AAGACTTATT	4260
	03 104	GAACAACCGG	AATTGGCAAG	TAAAGTAGAC	ATGGTTTGGA	TAGTCGGAGG	CAGTTCTGTT	4320
2	05 06	TACCAGGAAG	CCATGAATCA	ACCAGGCCAC	CTTAGACTCT	TTGTGACAAG	GATCATGCAG	4380
2	07 08						ACTTCTCCCA	4440
4	.00	GAMIIIGAAA	GIGNCACGII	LIICCCAGAA	WIIGHIIIGG	COUNTINIAN	ACTICION	

Raw Sequence Listing

05/26/93 14:42:54 S4539.raw

			·				
209 210	GAATACCCAG	GCGTCCTCTC	TGAGGTCCAG	GAGGAAAAAG	GCATCAAGTA	TAAGTTTGAA	4500
211							
212 213	GTCTACGAGA	AGAAAGACTA	ACAGGAAGAT	GCTTTCAAGT	TCTCTGCTCC	CCTCCTAAAG	4560
214	CTATGCATTT	TTATAAGACC	ATGGGACTTT	TGCTGGCTTT	AGATCAGCCT	CGACTGTGCC	4620
215 216	TTCTAGTTGC	CAGCCATCTG	TTGTTTGCCC	CTCCCCCGTG	CCTTCCTTGA	CCCTGGAAGG	4680
217		333333			3011001=311	000000000000	
218 219	TGCCACTCCC	ACTGTCCTTT	CCTAATAAAA	TGAGGAAATT	GCATCGCATT	GTCTGAGTAG	4740
220	GTGTCATTCT	ATTCTGGGGG	GTGGGGTGGG	GCAGGACAGC	AAGGGGGAGG	ATTGGGAAGA	4800
221	GA AMA GGA GG	CA TICCTICCO	» magaamaaa	CTCTATICCA A	CCACCTCCCC	CTCCA CCTA C	4860
222 223	CAATAGCAGG	CATGCTGGGG	ATGCGGTGGG	CTCTATGGAA	CCAGCIGGGG	CICGAGCIAC	4000
224	TAGCTTTGCT	TCTCAATTTC	TTATTTGCAT	AATGAGAAAA	AAAGGAAAAT	TAATTTTAAC	4920
225 226	ACCAATTCAG	TAGTTGATTG	AGCAAATGCG	TTGCCAAAAA	GGATGCTTTA	GAGACAGTGT	4980
227							5040
228 229	TCTCTGCACA	GATAAGGACA	AACATTATTC	AGAGGGAGTA	CCCAGAGCTG	AGACTCCTAA	5040
230	GCCAGTGAGT	GGCACAGCAT	TCTAGGGAGA	AATATGCTTG	TCATCACCGA	AGCCTGATTC	5100
231 232	CGTAGAGCCA	CACCTTGGTA	AGGGCCAATC	TGCTCACACA	GGATAGAGAG	GGCAGGAGCC	5160
233	communicati	CHCC1100111		1001010101	0011110110110		3200
234	AGGGCAGAGC	ATATAAGGTG	AGGTAGGATC	AGTTGCTCCT	CACATTTGCT	TCTGACATAG	5220
235 236	TTGTGTTGGG	AGCTTGGATC	GATCCTCTAT	GGTTGAACAA	GATGGATTGC	ACGCAGGTTC	5280
237							
238 239	TCCGGCCGCT	TGGGTGGAGA	GGCTATTCGG	CTATGACTGG	GCACAACAGA	CAATCGGCTG	5340
240	CTCTGATGCC	GCCGTGTTCC	GGCTGTCAGC	GCAGGGGCGC	CCGGTTCTTT	TTGTCAAGAC	5400
241							E460
242 243	CGACCTGTCC	GGTGCCCTGA	ATGAACTGCA	GGACGAGGCA	GCGCGGCTAT	CGTGGCTGGC	5460
244	CACGACGGGC	GTTCCTTGCG	CAGCTGTGCT	CGACGTTGTC	ACTGAAGCGG	GAAGGGACTG	5520
245 246	ССТССТАТТС	GGCGAAGTGC	CGGGGCAGGA	TCTCCTGTCA	TCTCACCTTG	CTCCTGCCGA	5580
247	GCIGCIRIIG	00001210100	cooccitoii	1010010101	1010110110	0100100001	
248	GAAAGTATCC	ATCATGGCTG	ATGCAATGCG	GCGGCTGCAT	ACGCTTGATC	CGGCTACCTG	5640
249 250	CCCATTCGAC	CACCAAGCGA	AACATCGCAT	CGAGCGAGCA	CGTACTCGGA	TGGAAGCCGG	5700
251							
252 253	TCTTGTCGAT	CAGGATGATC	TGGACGAAGA	GCATCAGGGG	CTCGCGCCAG	CCGAACTGTT	5760
254	CGCCAGGCTC	AAGGCGCGCA	TGCCCGACGG	CGAGGATCTC	GTCGTGACCC	ATGGCGATGC	5820
255	ancannaca.		maamaa	accommunication of the contraction of the contracti	aas mmas maa	» amamagaga	E000
256 257	CTGCTTGCCG	AATATCATGG	TGGAAAATGG	CCGCTTTTCT	GGATTCATCG	ACTGTGGCCG	5880
258	GCTGGGTGTG	GCGGACCGCT	ATCAGGACAT	AGCGTTGGCT	ACCCGTGATA	TTGCTGAAGA	5940
259 260	GCTTGGCGGC	GAATGGGCTG	ACCGCTTCCT	CGTGCTTTAC	GGTATCGCCG	CTCCCGATTC	6000

Raw Sequence Listing

05/26/93 14:42:55 S4539.raw

261 262 263	GCAGCGCATC	GCCTTCTATC	GCCTTCTTGA	CGAGTTCTTC	TGAGCGGGAC	TCTGGGGTTC	6060
264 265	GAAATGACCG	ACCAAGCGAC	GCCCAACCTG	CCATCACGAG	ATTTCGATTC	CACCGCCGCC	6120
266 267	TTCTATGAAA	GGTTGGGCTT	CGGAATCGTT	TTCCGGGACG	CCGGCTGGAT	GATCCTCCAG	6180
268 269	CGCGGGGATC	TCATGCTGGA	GTTCTTCGCC	CACCCCAACT	TGTTTATTGC	AGCTTATAAT	6240
270 271	GGTTACAAAT	AAAGCAATAG	CATCACAAAT	TTCACAAATA	AAGCATTTTT	TTCACTGCAT	6300
272 273	TCTAGTTGTG	GTTTGTCCAA	ACTCATCAAT	CTATCTTATC	ATGTCTGGAT	CGCGGCCGCG	6360
274 275	ATCCCGTCGA	GAGCTTGGCG	TAATCATGGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	6420
276 277		TCCACACAAC					6480
278 279		CTAACTCACA					6540
280 281		CCAGCTGCAT					6600
282 283		TTCCGCTTCC					6660
284 285		AGCTCACTCA					6720 6780
286 287		CATGTGAGCA					6840
288 289		TTTCCATAGG					6900
290 291 292		CTCTCCTGTT					6960
293 294	CTTCGGGAAG			CACGCTGTAG			7020
295 296				AACCCCCCGT			7080
297 298	TATCCGGTAA			CGGTAAGACA			7140
299 300	CAGCCACTGG	TAACAGGATT	AGCAGAGCGA	GGTATGTAGG	CGGTGCTACA	GAGTTCTTGA	7200
301 302	AGTGGTGGCC	TAACTACGGC	TACACTAGAA	GGACAGTATT	TGGTATCTGC	GCTCTGCTGA	7260
303 304	AGCCAGTTAC	CTTCGGAAAA	AGAGTTGGTA	GCTCTTGATC	CGGCAAACAA	ACCACCGCTG	7320
305 306	GTAGCGGTGG	TTTTTTTGTT	TGCAAGCAGC	AGATTACGCG	CAGAAAAAA	GGATCTCAAG	7380
307 308	AAGATCCTTT	GATCTTTTCT	ACGGGGTCTG	ACGCTCAGTG	GAACGAAAAC	TCACGTTAAG	7440
309 310	GGATTTTGGT	CATGAGATTA	TCAAAAAGGA	TCTTCACCTA	GATCCTTTTA	AATTAAAAAT	7500
311 312	GAAGTTTTAA	ATCAATCTAA	AGTATATATG	AGTAAACTTG	GTCTGACAGT	TACCAATGCT	7560

Raw Sequence Listing

05/26/93 14:43:14 S4539.raw

Patent Application US/07/978,891B

212								
313 314	ТАЛТСАСТСА	GGCACCTATC	тсасссатст	GTCT&TTCG	ттсатссата	GTTGCCTGAC	7620	
315	imicioidi	00010011110	101100011101	OICIMIIICO	11011001111	01100010110	, 525	
316	TCCCCGTCGT	GTAGATAACT	ACGATACGGG	AGGGCTTACC	ATCTGGCCCC	AGTGCTGCAA	7680	
317		•						
318	TGATACCGCG	AGACCCACGC	TCACCGGCTC	CAGATTTATC	AGCAATAAAC	CAGCCAGCCG	7740	
319								
320	GAAGGGCCGA	GCGCAGAAGT	GGTCCTGCAA	CTTTATCCGC	CTCCATCCAG	TCTATTAATT	7800	
321								
322	GTTGCCGGGA	AGCTAGAGTA	AGTAGTTCGC	CAGTTAATAG	TTTGCGCAAC	GTTGTTGCCA	7860	
323								
324	TTGCTACAGG	CATCGTGGTG	TCACGCTCGT	CGTTTGGTAT	GGCTTCATTC	AGCTCCGGTT	7920	
325								
326	CCCAACGATC	AAGGCGAGTT	ACATGATCCC	CCATGTTGTG	CAAAAAAGCG	GTTAGCTCCT	7980	
327					ann. na. ana	1 maamm1 maa	0040	
328	TCGGTCCTCC	GATCGTTGTC	AGAAGTAAGT	TGGCCGCAGT	GTTATCACTC	ATGGTTATGG	8040	
329 330	CACCACTCCA	TAATTCTCTT	3 CTCTCTC 3 TCC	CATCCCTAAC	አጥሮርጥጥጥጥሮጥ	СТСЛ СТССТС	8100	
331	CAGCACIGCA	IMMITCICII	ACIGICAIGC	CAICCGIAAG	AIGCITITCI	GIGACIGGIG	0100	
332	AGTACTCAAC	CAAGTCATTC	тсасаатаст	GTATGCGGCG	ACCGAGTTGC	TCTTGCCCGG	8160	
333								
334	CGTCAATACG	GGATAATACC	GCGCCACATA	GCAGAACTTT	AAAAGTGCTC	ATCATTGGAA	8220	
335								
336	AACGTTCTTC	GGGGCGAAAA	CTCTCAAGGA	TCTTACCGCT	GTTGAGATCC	AGTTCGATGT	8280	
337								
338	AACCCACTCG	TGCACCCAAC	TGATCTTCAG	CATCTTTTAC	TTTCACCAGC	GTTTCTGGGT	8340	
339								
340	GAGCAAAAAC	AGGAAGGCAA	AATGCCGCAA	AAAAGGGAAT	AAGGGCGACA	CGGAAATGTT	8400	
341						m. m. cm.cm.ca	0460	
342 343	GAATACTCAT	ACTCTTCCTT	TTTCAATATT	ATTGAAGCAT	TTATCAGGGT	TATTGTCTCA	8460	
344	ТСХССССХТХ	CATATTTGAA	ጥርጥልጥጥጥ ልርል	********	A A TT A CCCCCTT	СССССАСАТ	8520	
345	IGAGCGGAIA	CAIAIIIGAA	IGIAIIIAGA	MANIAMON	ANIAGGGII	CCGCGCACAI	0320	
346	TTCCCCGAAA	AGTGCCACCT	8540					
347			00.10					
348								
349	(3) INFORMATIO	N FOR SEQ	ID NO: 2:					
350								
351	(i) SEQUENCE C	CHARACTERIST	rics:					
352								
353	(A) LENGTH: 9							
354								
355								
356	(D) TOPOLOGY:	circular						
357	(m	(
358 359	(ii) MOLECULE	TYPE: DNA	(genomic)					
359 360	(iii) HYPOTHET	TICAL: no						
361	(TII) NIPOIAEI	ITCALL: IIO						
362	(iv) ANTI-SENS	SE: no						
363	,							
	(1) ===================================							

364 (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Raw Sequence Listing

05/26/93 14:43:20 S4539.raw

365							
366 367	CACCTCCCG	CCGCTCTAGG	ССТССВВВВ	AGCCTCCTCA	CTACTTCTGG	AATAGCTCAG	60
368	GACGICGCGG	ccccicing	ccrccmann	nocciccion	01110110100	111110010110	
369	AGGCCGAGGC	GGCCTCGGCC	TCTGCATAAA	TAAAAAAAT	TAGTCAGCCA	TGCATGGGGC	120
370				0000001 mga	CCCCA CMMA C	00000000000000000000000000000000000000	100
371 372	GGAGAATGGG	CGGAACTGGG	CGGAGTTAGG	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
373	ATGGTTGCTG	ACTAATTGAG	ATGCATGCTT	TGCATACTTC	TGCCTGCTGG	GGAGCCTGGG	240
374							
375	GACTTTCCAC	ACCTGGTTGC	TGACTAATTG	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	300
376 377	CCCCACCCTC	GGGACTTTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
378	00001100010	303					
379	AGTTATTAAT	AGTAATCAAT	TACGGGGTCA	TTAGTTCATA	GCCCATATAT	GGAGTTCCGC	420
380	CMM1 C1 M1 1 C	mm. 000m	maaaaaaaa	acamar acaa	GGA A GGA GGG	CCCCCCA TITC	480
381 382	GTTACATAAC	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCAIIG	400
383	ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
384							
385	TGGGTGGACT	ATTTACGGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
386 387	AGTACGCCCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATTA	TGCCCAGTAC	660
388					••••		
389	ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	720
390					1 GGGGTTTTG1	amas aagaas	780
391 392	ATGGTGATGC	GGTTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTTGA	CTCACGGGGA	780
393	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
394							
395 306	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
396 397	CGGTGGGAGG	TCTATATAAG	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
398							
399	CATCACAGAT	CTCTCACTAT	GGATTTTCAG	GTGCAGATTA	TCAGCTTCCT	GCTAATCAGT	1020
400	CCMTC3 CTC3	TAATGTCCAG	3 <i>CC</i> 3 <i>C</i> 3337T	ごかかいかいかいがい	እ ር ጥርጥርር እርር	እ አ ጥርርጥርጥርጥ	1080
401 402	GCTTCAGTCA	TANTGICCAG	AGGACAAATT	GIICICICCC	AGICICCAGC	ARICCIGICI	1000
403	GCATCTCCAG	GGGAGAAGGT	CACAATGACT	TGCAGGGCCA	GCTCAAGTGT	AAGTTACATC	1140
404						a. a. a. a. a a	1000
405 406	CACTGGTTCC	AGCAGAAGCC	AGGATCCTCC	CCCAAACCCT	GGATTTATGC	CACATCCAAC	1200
407	CTGGCTTCTG	GAGTCCCTGT	TCGCTTCAGT	GGCAGTGGGT	CTGGGACTTC	TTACTCTCTC	1260
408							
409	ACAATCAGCA	GAGTGGAGGC	TGAAGATGCT	GCCACTTATT	ACTGCCAGCA	GTGGACTAGT	1320
410 411	**************************************	ССТТСССАСС	GGGGACCAAG	СТССВВВТСВ	AACGTACGGT	GGCTGCACCA	1380
412	ARCCORCCOA	CGIICGGAGG	DANJOACCARG	CIGOIMICA			
413	TCTGTCTTCA	TCTTCCCGCC	ATCTGATGAG	CAGTTGAAAT	CTGGAACTGC	CTCTGTTGTG	1440
414	maaamaama	> m > > cmmcm -	maaaa aa aa a		3 CMCC3 3 CC	CCAMAACCCC	1500
415 416	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	GCCAAAGTAC	AGTGGAAGGT	GGATAACGCC	1500

Raw Sequence Listing

05/26/93 14:43:27 S4539.raw

417 418	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1560
419 420	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1620
421 422	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1680
423 424	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1740
425 426	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1800
427 428	GTTTGCCCCT	CCCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1860
429 430		AGGAAATTGC					1920
431 432		AGGACAGCAA					1980
433 434		CTATGGAACC					2040
435 436		CGGTAAATGG					2100 2160
437 438 439		CAATGGGCGT					2220
440 441		CAATGGGAGT					2280
442		CGCCCCATTG					2340
444 445		TGGGTACGTC					2400
446 447	ATGGGTTGGA	GCCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACGCGTGT	CCTGTCCCAG	2460
448 449	GTACAACTGC	AGCAGCCTGG	GGCTGAGCTG	GTGAAGCCTG	GGGCCTCAGT	GAAGATGTCC	2520
450 451	TGCAAGGCTT	CTGGCTACAC	ATTTACCAGT	TACAATATGC	ACTGGGTAAA	ACAGACACCT	2580
452 453	GGTCGGGGCC	TGGAATGGAT	TGGAGCTATT	TATCCCGGAA	ATGGTGATAC	TTCCTACAAT	2640
454 455	CAGAAGTTCA	AAGGCAAGGC	CACATTGACT	GCAGACAAAT	CCTCCAGCAC	AGCCTACATG	2700
456 457 458	CAGCTCAGCA	GCCTGACATC	TGAGGACTCT	GCGGTCTATT	ACTGTGCAAG	ATCGACTTAC	2760
459 460	TACGGCGGTG	ACTGGTACTT	CAATGTCTGG	GGCGCAGGGA	CCACGGTCAC	CGTCTCTGCA	2820
461 462	GCTAGCACCA	AGGGCCCATC	GGTCTTCCCC	CTGGCACCCT	CCTCCAAGAG	CACCTCTGGG	2880
463 464	GGCACAGCGG	CCCTGGGCTG	CCTGGTCAAG	GACTACTTCC	CCGAACCGGT	GACGGTGTCG	2940
465 466	TGGAACTCAG	GCGCCCTGAC	CAGCGGCGTG	CACACCTTCC	CGGCTGTCCT	ACAGTCCTCA	3000
467 468	GGACTCTACT	CCCTCAGCAG	CGTGGTGACC	GTGCCCTCCA	GCAGCTTGGG	CACCCAGACC	3060

Raw Sequence Listing

05/26/93 14:43:28 S4539.raw

469	TACATCTGCA	ACGTGAATCA	CAAGCCCAGC	AACACCAAGG	TGGACAAGAA	AGCAGAGCCC	3120
470 471 472	AAATCTTGTG	ACAAAACTCA	CACATGCCCA	CCGTGCCCAG	CACCTGAACT	CCTGGGGGGA	3180
473 474	CCGTCAGTCT	TCCTCTTCCC	CCCAAAACCC	AAGGACACCC	TCATGATCTC	CCGGACCCCT	3240
475 476	GAGGTCACAT	GCGTGGTGGT	GGACGTGAGC	CACGAAGACC	CTGAGGTCAA	GTTCAACTGG	3300
477 478	TACGTGGACG	GCGTGGAGGT	GCATAATGCC	AAGACAAAGC	CGCGGGAGGA	GCAGTACAAC	3360
479 480	AGCACGTACC	GTGTGGTCAG	CGTCCTCACC	GTCCTGCACC	AGGACTGGCT	GAATGGCAAG	3420
481 482	GAGTACAAGT	GCAAGGTCTC	CAACAAAGCC	CTCCCAGCCC	CCATCGAGAA	AACCATCTCC	3480
483 484	AAAGCCAAAG	GGCAGCCCCG	AGAACCACAG	GTGTACACCC	TGCCCCCATC	CCGGGATGAG	3540
485 486	CTGACCAAGA	ACCAGGTCAG	CCTGACCTGC	CTGGTCAAAG	GCTTCTATCC	CAGCGACATC	3600
487 488	GCCGTGGAGT	GGGAGAGCAA	TGGGCAGCCG	GAGAACAACT	ACAAGACCAC	GCCTCCCGTG	3660
489 490	CTGGACTCCG	ACGGCTCCTT	CTTCCTCTAC	AGCAAGCTCA	CCGTGGACAA	GAGCAGGTGG	3720
491 492	CAGCAGGGGA	ACGTCTTCTC	ATGCTCCGTG	ATGCATGAGG	CTCTGCACAA	CCACTACACG	3780
493 494	CAGAAGAGCC	TCTCCCTGTC	TCCGGGTAAA	TGAGGATCCG	TTAACGGTTA	CCAACTACCT	3840
495 496	AGACTGGATT	CGTGACAACA	TGCGGCCGTG	ATATCTACGT	ATGATCAGCC	TCGACTGTGC	3900
497 498	CTTCTAGTTG	CCAGCCATCT	GTTGTTTGCC	CCTCCCCGT	GCCTTCCTTG	ACCCTGGAAG	3960
499 500	GTGCCACTCC	CACTGTCCTT	TCCTAATAAA	ATGAGGAAAT	TGCATCGCAT	TGTCTGAGTA	4020
501 502	GGTGTCATTC	TATTCTGGGG	GGTGGGGTGG	GGCAGGACAG	CAAGGGGGAG	GATTGGGAAG	4080
503 504	ACAATAGCAG	GCATGCTGGG	GATGCGGTGG	GCTCTATGGA	ACCAGCTGGG	GCTCGACAGC	4140
505 506	GCTGGATCTC	CCGATCCCCA	GCTTTGCTTC	TCAATTTCTT	ATTTGCATAA	TGAGAAAAA	4200
507 508	AGGAAAATTA	ATTTTAACAC	CAATTCAGTA	GTTGATTGAG	CAAATGCGTT	GCCAAAAAGG	4260
509 510	ATGCTTTAGA	GACAGTGTTC	TCTGCACAGA	TAAGGACAAA	CATTATTCAG	AGGGAGTACC	4320
511 512	CAGAGCTGAG	ACTCCTAAGC	CAGTGAGTGG	CACAGCATTC	TAGGGAGAAA	TATGCTTGTC	4380
513 514	ATCACCGAAG	CCTGATTCCG	TAGAGCCACA	CCTTGGTAAG	GGCCAATCTG	CTCACACAGG	4440
515 516	ATAGAGAGGG	CAGGAGCCAG	GGCAGAGCAT	ATAAGGTGAG	GTAGGATCAG	TTGCTCCTCA	4500
517 518	CATTTGCTTC	TGACATAGTT	GTGTTGGGAG	CTTGGATAGC	TTGGACAGCT	CAGGGCTGCG	4560
519 520	ATTTCGCGCC	AAACTTGACG	GCAATCCTAG	CGTGAAGGCT	GGTAGGATTT	TATCCCCGCT	4620

Raw Sequence Listing

05/26/93 14:43:41 54539.raw

521 522	GCCATCATGG	TTCGACCATT	GAACTGCATC	GTCGCCGTGT	CCCAAAATAT	GGGGATTGGC	4680
523 524	AAGAACGGAG	ACCTACCCTG	GCCTCCGCTC	AGGAACGAGT	TCAAGTACTT	CCAAAGAATG	4740
525 526	ACCACAACCT	CTTCAGTGGA	AGGTAAACAG	AATCTGGTGA	TTATGGGTAG	GAAAACCTGG	4800
527 528	TTCTCCATTC	CTGAGAAGAA	TCGACCTTTA	AAGGACAGAA	TTAATATAGT	TCTCAGTAGA	4860
529	GAACTCAAAG	AACCACCACG	AGGAGCTCAT	TTTCTTGCCA	AAAGTTTGGA	TGATGCCTTA	4920
530 531 532	AGACTTATTG	AACAACCGGA	ATTGGCAAGT	AAAGTAGACA	TGGTTTGGAT	AGTCGGAGGC	4980
532 533 534	AGTTCTGTTT	ACCAGGAAGC	CATGAATCAA	CCAGGCCACC	TTAGACTCTT	TGTGACAAGG	5040
535 536	ATCATGCAGG	AATTTGAAAG	TGACACGTTT	TTCCCAGAAA	TTGATTTGGG	GAAATATAAA	5100
537 538	CTTCTCCCAG	AATACCCAGG	CGTCCTCTCT	GAGGTCCAGG	AGGAAAAAGG	CATCAAGTAT	5160
539 540	AAGTTTGAAG	TCTACGAGAA	GAAAGACTAA	CAGGAAGATG	CTTTCAAGTT	CTCTGCTCCC	5220
541 542	CTCCTAAAGC	TATGCATTTT	TATAAGACCA	TGGGACTTTT	GCTGGCTTTA	GATCAGCCTC	5280
543	GACTGTGCCT	TCTAGTTGCC	AGCCATCTGT	TGTTTGCCCC	TCCCCCGTGC	CTTCCTTGAC	5340
544 545	CCTGGAAGGT	GCCACTCCCA	CTGTCCTTTC	CTAATAAAAT	GAGGAAATTG	CATCGCATTG	5400
546 547 548	TCTGAGTAGG	TGTCATTCTA	TTCTGGGGGG	TGGGGTGGG	CAGGACAGCA	AGGGGGAGGA	5460
549 550	TTGGGAAGAC	AATAGCAGGC	ATGCTGGGGA	TGCGGTGGGC	TCTATGGAAC	CAGCTGGGGC	5520
551 552	TCGAGCTACT	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	5580
553 554	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	5640
555 556	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	5700
557 558	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	5760
559 560	GCCTGATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	5820
561 562	GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	5880
563 564	CTGACATAGT	TGTGTTGGGA	GCTTGGATCG	ATCCTCTATG	GTTGAACAAG	ATGGATTGCA	5940
565 566	CGCAGGTTCT	CCGGCCGCTT	GGGTGGAGAG	GCTATTCGGC	TATGACTGGG	CACAACAGAC	6000
567 568	AATCGGCTGC	TCTGATGCCG	CCGTGTTCCG	GCTGTCAGCG	CAGGGGCGCC	CGGTTCTTTT	6060
569 570	TGTCAAGACC	GACCTGTCCG	GTGCCCTGAA	TGAACTGCAG	GACGAGGCAG	CGCGGCTATC	6120
570 571 572	GTGGCTGGCC	ACGACGGGCG	TTCCTTGCGC	AGCTGTGCTC	GACGTTGTCA	CTGAAGCGGG	6180
J / Z							

Raw Sequence Listing

05/26/93 14:43:48 S4539.raw

573 574	AAGGGACTGG	CTGCTATTGG	GCGAAGTGCC	GGGGCAGGAT	CTCCTGTCAT	CTCACCTTGC	6240
575 576	TCCTGCCGAG	AAAGTATCCA	TCATGGCTGA	TGCAATGCGG	CGGCTGCATA	CGCTTGATCC	6300
577 578	GGCTACCTGC	CCATTCGACC	ACCAAGCGAA	ACATCGCATC	GAGCGAGCAC	GTACTCGGAT	6360
579 580	GGAAGCCGGT	CTTGTCGATC	AGGATGATCT	GGACGAAGAG	CATCAGGGGC	TCGCGCCAGC	6420
581 582	CGAACTGTTC	GCCAGGCTCA	AGGCGCGCAT	GCCCGACGGC	GAGGATCTCG	TCGTGACCCA	6480
583 584		TGCTTGCCGA					6540
585 586		CTGGGTGTGG					6600
587 588		CTTGGCGGCG					6660
589 590		CAGCGCATCG					6720 6780
591 592 593		TCTATGAAAG					6840
594 595		GCGGGGATCT					6900
596 597		GTTACAAATA					6960
598 599	TCACTGCATT	CTAGTTGTGG	TTTGTCCAAA	CTCATCAATC	TATCTTATCA	TGTCTGGATC	7020
600 601	GCGGCCGCGA	TCCCGTCGAG	AGCTTGGCGT	AATCATGGTC	ATAGCTGTTT	CCTGTGTGAA	7080
602 603	ATTGTTATCC	GCTCACAATT	CCACACAACA	TACGAGCCGG	AAGCATAAAG	TGTAAAGCCT	7140
604 605	GGGGTGCCTA	ATGAGTGAGC	TAACTCACAT	TAATTGCGTT	GCGCTCACTG	CCCGCTTTCC	7200
606 607	AGTCGGGAAA	CCTGTCGTGC	CAGCTGCATT	AATGAATCGG	CCAACGCGCG	GGGAGAGGCG	7260
608 609 610	GTTTGCGTAT	TGGGCGCTCT	TCCGCTTCCT	CGCTCACTGA	CTCGCTGCGC	TCGGTCGTTC	7320
611 612	GGCTGCGGCG	AGCGGTATCA	GCTCACTCAA	AGGCGGTAAT	ACGGTTATCC	ACAGAATCAG	7380
613 614	GGGATAACGC	AGGAAAGAAC	ATGTGAGCAA	AAGGCCAGCA	AAAGGCCAGG	AACCGTAAAA	7440
615 616	AGGCCGCGTT	GCTGGCGTTT	TTCCATAGGC	TCCGCCCCC	TGACGAGCAT	CACAAAAATC	7500
617 618	GACGCTCAAG	TCAGAGGTGG	CGAAACCCGA	CAGGACTATA	AAGATACCAG	GCGTTTCCCC	7560
619 620	CTGGAAGCTC	CCTCGTGCGC	TCTCCTGTTC	CGACCCTGCC	GCTTACCGGA	TACCTGTCCG	7620
621 622	CCTTTCTCCC	TTCGGGAAGC	GTGGCGCTTT	CTCAATGCTC	ACGCTGTAGG	TATCTCAGTT	7680
623 624	CGGTGTAGGT	CGTTCGCTCC	AAGCTGGGCT	GTGTGCACGA	ACCCCCGTT	CAGCCCGACC	7740

Raw Sequence Listing

05/26/93 14:43:54 S4539.raw

Patent Application US/07/978,891B

62	-	GCTGCGCCTT	ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	GGTAAGACAC	GACTTATCGC	7800
62 62		CACTGGCAGC	AGCCACTGGT	AACAGGATTA	GCAGAGCGAG	GTATGTAGGC	GGTGCTACAG	7860
62								
62	_	AGTTCTTGAA	GTGGTGGCCT	AACTACGGCT	ACACTAGAAG	GACAGTATTT	GGTATCTGCG	7920
63 63	-	CTCTGCTGAA	GCCAGTTACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	7980
63		0101001011						
63	_	CCACCGCTGG	TAGCGGTGGT	TTTTTTGTTT	GCAAGCAGCA	GATTACGCGC	AGAAAAAAG	8040
63 63		GATCTCAAGA	AGATCCTTTG	АТСТТТТСТА	СССССТСТСА	CGCTCAGTGG	AACGAAAACT	8100
63	_	011101011011						
63		CACGTTAAGG	GATTTTGGTC	ATGAGATTAT	CAAAAAGGAT	CTTCACCTAG	ATCCTTTTAA	8160
63 63		እ ጥጥ ል እ እ እጥር	AAGTTTTAAA	ТСДДТСТДДД	СТАТАТАТСА	GTAAACTTGG	тстсасастт	8220
64	_	AIIAAAAAIG	MGIIIIMM	icmicimin	GIAIAIAIGA	JIMMICI 100	1010110111	0220
64		ACCAATGCTT	AATCAGTGAG	GCACCTATCT	CAGCGATCTG	TCTATTTCGT	TCATCCATAG	8280
64 64	_	mmaaamaa am	CCCCGTCGTG	#100 #100 #100 #100	CCATACCCCA	CCCCTTACCA	тстаассса	8340
64		TIGCCIGACI	ccccarcara	IAGAIAACIA	CGATACGGGA	GGGCTIACCA	TCTGGCCCCA	0340
64	15	GTGCTGCAAT	GATACCGCGA	GACCCACGCT	CACCGGCTCC	AGATTTATCA	GCAATAAACC	8400
64	-	200220000	AAGGGCCGAG	aaaaaaaaaa	CTCCTCCA A C	mmma maccaca	TO CATOCA CT	8460
64 64		AGCCAGCCGG	AAGGGCCGAG	CGCAGAAGIG	GICCIGCAAC	TTTATCCGCC	ICCAICCAGI	0400
64	9	CTATTAATTG	TTGCCGGGAA	GCTAGAGTAA	GTAGTTCGCC	AGTTAATAGT	TTGCGCAACG	8520
65			maam) a) aaa	> maamaamam	03 000m00m0	CIMMING CIMEN INC.	COMPONENCE.	8580
65 65		TTGTTGCCAT	TGCTACAGGC	ATCGTGGTGT	CACGCTCGTC	GTTTGGTATG	GCTTCATTCA	8580
65		GCTCCGGTTC	CCAACGATCA	AGGCGAGTTA	CATGATCCCC	CATGTTGTGC	AAAAAAGCGG	8640
65	_				a am am.		EE 2 CE C	9700
65 65		TTAGCTCCTT	CGGTCCTCCG	ATCGTTGTCA	GAAGTAAGTT	GGCCGCAGTG	TTATCACTCA	8700
65		TGGTTATGGC	AGCACTGCAT	AATTCTCTTA	CTGTCATGCC	ATCCGTAAGA	TGCTTTTCTG	8760
65					a. a	m> magaaaa	acca compact	0000
65 66	-	TGACTGGTGA	GTACTCAACC	AAGTCATTCT	GAGAATAGTG	TATGCGGCGA	CCGAGTTGCT	8820
66		CTTGCCCGGC	GTCAATACGG	GATAATACCG	CGCCACATAG	CAGAACTTTA	AAAGTGCTCA	8880
66								0040
66 66		TCATTGGAAA	ACGTTCTTCG	GGGCGAAAAC	TCTCAAGGAT	CTTACCGCTG	TTGAGATCCA	8940
66		GTTCGATGTA	ACCCACTCGT	GCACCCAACT	GATCTTCAGC	ATCTTTTACT	TTCACCAGCG	9000
66								0050
66 66		TTTCTGGGTG	AGCAAAAACA	GGAAGGCAAA	ATGCCGCAAA	AAAGGGAATA	AGGCGACAC	9060
66		GGAAATGTTG	AATACTCATA	CTCTTCCTTT	TTCAATATTA	TTGAAGCATT	TATCAGGGTT	9120
67	70							0.7.0.5
67 67		ATTGTCTCAT	GAGCGGATAC	ATATTTGAAT	GTATTTAGAA	AAATAAACAA	ATAGGGGTTC	9180
67		CGCGCACATT	TCCCCGAAAA	GTGCCACCT				9209
67	74							
~ ~								

675

728

Raw Sequence Listing

05/26/93 14:44:01 S4539.raw

```
677
     (i) SEQUENCE CHARACTERISTICS:
678
679
     (A) LENGTH: 47 bases
680
681
     (B) TYPE: nucleic acid
682
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
683
                                                                 Space before
/ Space rucking
court number
684
685
     (ii) MOLECULE TYPE: DNA (genomic)
686
    (iii) HYPOTHETICAL: no
687
688
    (iv) ANTI-SENSE: no
689
690
691 (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
692
693 ATC ACA GAT CTC TCA CCA TGG ATT TTC AGG TBC AGA TTA TCA GCT45
            _
694 TC47
695 (5) INFORMATION FOR SEQ ID NO: 4:
696 Space
     (i) SEQUENCE CHARACTERISTICS:
697
698
699
     (A) LENGTH: 30 bases
700 (B) TYPE: nucleic acid
701
     (C) STRANDEDNESS: single
702
     (D) TOPOLOGY: linear
703
704 (ii) MOLECULE TYPE: DNA (genomic)
705
706
    (iii) HYPOTHETICAL: no
707
708 (iv) ANTI-SENSE: yes
709
710 (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
711
712 TGC AGC ATC CGT ACG TTT GAT TTC CAG CTT 30
713
     (6) INFORMATION FOR SEQ ID NO: 5:
714
715
716
     (i) SEQUENCE CHARACTERISTICS:
717
718
     (A) LENGTH: 384 bases
719
     (B) TYPE: nucleic acid
720
     (C) STRANDEDNESS: single
721
     (D) TOPOLOGY: linear
722
723
     (ii) MOLECULE TYPE: DNA (genomic)
724
    (iii) HYPOTHETICAL: no
725
726
727 (iv) ANTI-SENSE: no
```

Raw Sequence Listing

05/26/93 14:44:08 S4539.raw

```
729
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
730
731
      ATG GAT TTT CAG GTG CAG ATT ATC AGC TTC CTG CTA ATC AGT GCT TCA GTC 51
732
733
       ATA ATG TCC AGA GGG CAA ATT GTT CTC TCC CAG TCT CCA GCA ATC CTG TCT102
734
735
       GCA TCT CCA GGG GAG AAG GTC ACA ATG ACT TGC AGG GCC AGC TCA AGT GTA153
736
737
       AGT TAC ATC CAC TGG TTC CAG CAG AAG CCA GGA TCC TCC CCC AAA CCC TGG204
738
739
       ATT TAT GCC ACA TCC AAC CTG GCT TCT GGA GTC CCT GTT CGC TTC AGT GGC255
740
741
       AGT GGG TCT GGG ACT TCT TAC TCT CTC ACA ATC AGC AGA GTG GAG GCT GAASTO
742
743
       GAT GCT GCC ACT TAT TAC TGC CAG CAG TGG ACT AGT AAC CCA CCC ACG TTC357
744
745
       GGA GGG GGG ACC AAG CTG GAA ATC AAA384
746
747
748
     (7) INFORMATION FOR SEQ ID NO:
749
750
     (i) SEQUENCE CHARACTERISTICS:
751
752
753
     (A) LENGTH: 27 bases
754
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
755
     (D) TOPOLOGY: linear
756
757
     (ii) MOLECULE TYPE: DNA (genomic)
758
759
760
     (iii) HYPOTHETICAL: no
761
762
     (iv) ANTI-SENSE: no
763
764
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
765
766
    GCG GCT CCC ACG CGT GTC CTG TCC CAG27
767
     (8) INFORMATION FOR SEQ ID NO:
768
                                    7:
769
770
     (i) SEQUENCE CHARACTERISTICS:
771
772
     (A) LENGTH: 29 bases
773
     (B) TYPE: nucleic acid
774
     (C) STRANDEDNESS: single
775
     (D) TOPOLOGY: linear
776
777
     (ii) MOLECULE TYPE: DNA (genomic)
778
779
     (iii) HYPOTHETICAL: no
780
```

820

Raw Sequence Listing

05/26/93 14:44:15 S4539.raw

781	(iv) ANTI-SENSE: yes				
782					
783	(ix)SEQUENCE DESCRIPTION: SEQ ID NO: 7:				
784					
785	GGS TGT TGT GCT AGC TGM RGA GAC RGT GA29				
786	$/\lambda$				
787	(9) INFORMATION FOR SEQ ID NO: 8:				
788	$\lambda_{0}(\mathcal{L})$				
789	(9) INFORMATION FOR SEQ ID NO: 8: (i) SEQUENCE CHARACTERISTICS:				
790					
791	(A) LENGTH: 420 bases				
792	(B) TYPE: nucleic acid				
793	(C)STRANDEDNESS: single				
794	(D) TOPOLOGY: linear				
795					
796	(ii) MOLECULE TYPE: DNA (genomic)				
797	(22)				
798	(iii) HYPOTHETICAL: no				
799	(111)1110111111111111111111111111111111				
800	(iv) ANTI-SENSE: no				
801	(17)22122 522152. 110				
802	(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 8:				
803	ATG GGT TGG AGC CTC ATC TTG CTC TTC CTT GTC GCT GTT GCT ACG CGT GTC 51				
804	ATG GGT TGG AGC CTC ATC TTG CTC TTC CTT GTC GCT GTT GCT ACG CGT GTC 51				
805					
806	CTG TCC CAG GTA CAA CTG CAG CAG CCT GGG GCT GAG CTG GTG AAG CCT GGG102				
807					
808	GCC TCA GTG AAG ATG TCC TGC AAG GCT TCT GGC TAC ACA TTT ACC AGT TAC153				
809	occ len die and nie lee inc mie del lei dec inc men ill mee mei imple				
810	AAT ATG CAC TGG GTA AAA CAG ACA CCT GGT CGG GGC CTG GAA TGG ATT GGA 204				
811	ARI AIG CAC IGG GIR AAR CAG ACA CCI GGI CGG GGC CIG GAA IGG AII GGI AU.				
812	GCT ATT TAT CCC GGA AAT GGT GAT ACT TCC TAC AAT CAG AAG TTC AAA GGC255				
813	GCI AII IAI CCC GGA AAI GGI GAI ACI ICC IAC AAI CAG AAG IIC AAA GCC233				
814	AAG GCC ACA TTG ACT GCA GAC AAA TCC TCC AGC ACA GCC TAC ATG CAG CTC306				
815	ANG GCC ACA TTG ACT GCA GAC AAA TCC TCC AGC ACA GCC TAC ATG CAG CTC500				
816	AGC AGC CTG ACA TCT GAG GAC TCT GCG GTC TAT TAC TGT GCA AGA TCG ACT357				
817	AGE AGE CIG ACA ICI GAG GAE ICI GEG GIC IAI IAE IGI GEA AGA IEG ACISSI				
818	TAC TAC GGC GGT GAC TGG TAC TTC AAT GTC TGG GGC GCA GGG ACC ACG GTC408				
819	ACC GTC TCT GCA 420				